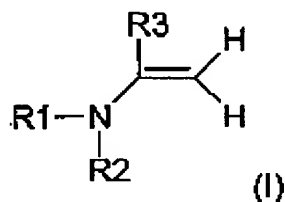


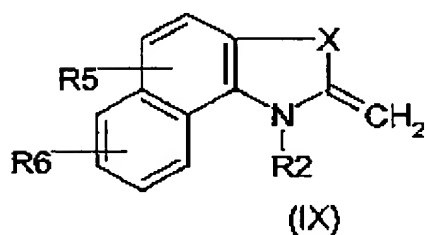
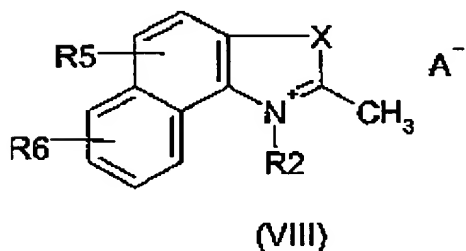
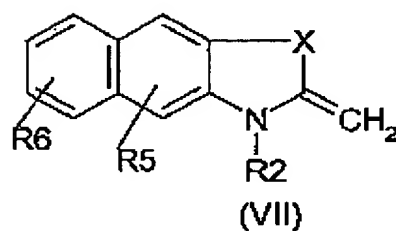
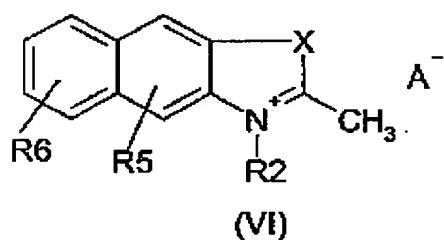
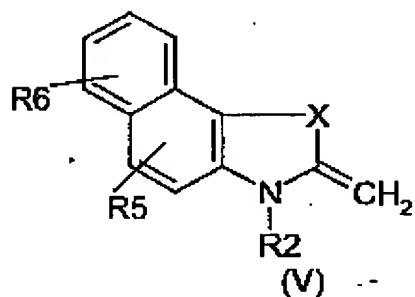
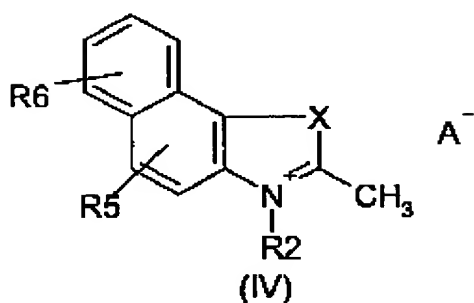
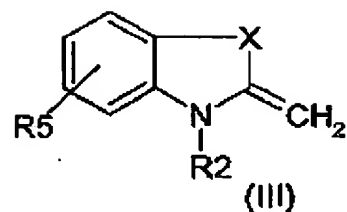
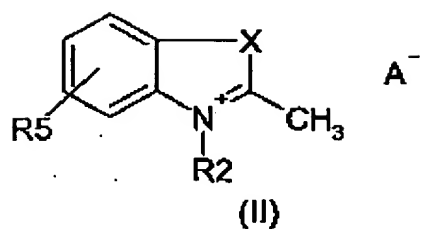
Claims

1. A composition for dyeing fibers, attained by mixing two components, wherein the one component (A1) contains at least one enamine of formula (I) or its physiologically tolerated salt,



in which R1 is an aromatic group with one or more aromatic rings, particularly a 5-membered or 6-membered aryl group, which is optionally substituted by a C1 to C-4 alkyl group, a C1 to C4 hydroxyalkyl group, a hydroxy group, a methoxy group, a dialkylamino group or a halogen group, preferably a phenyl group, or a 5-membered or a 6-membered heterocyclic group, preferably a pyridyl group or a naphthyl group; R2 is a linear or branched C1 to C8 alkyl group, a linear or branched C1 to C8 hydroxyalkyl group or a C1 to C8 alkoxyalkyl group, there possibly being oxygen atoms between the carbon atoms of the alkyl chain, R3 is a linear or branched C1 to C8 alkyl group, a C1 to C8 alkoxyalkyl group or a linear or branched C1 to C8 alkylene group, a C1 to C8 alkoxyalkylene group, -O-, -NH-, -NR₄- or -S- and R₄ is an alkyl group, an alkoxyalkyl group, a hydroxyalkyl group or hydrogen, the R1 and R3 groups, together with the nitrogen atom and the carbon atom of the basic enamine structure being able to form a cyclic compound and the other component (A2) contains at least one carbonyl compound.

2. The composition of claim 1, wherein the enamine of formula (I) or its salt is selected from the compounds of formulas (II) to (IX),



in which X is a carbon atom, which is substituted by two C1 to C4 alkyl groups or by a C1 to C4 alkyl group and a hydroxyl group, a sulfur atom, an alkylated or not alkylated nitrogen atom or an oxygen atom, and R2 is a linear or branched C1 to C8 alkyl group, a linear or branched C1 to C8 hydroxyalkyl group or a C1 to C8 alkoxyalkyl group, there possibly being oxygen atoms between the carbon atoms of the alkyl chain, R5 and R6, independently of one another are hydrogen, a linear or

branched C1 to C4 alkyl group, a linear or branched C1 to C4 hydroxyalkyl group, a hydroxy group, a methoxy group, an amino group, a dialkylamino group or a halogen atom, and A⁻ is chloride, bromide, iodide, hydrogen sulfate, monomethyl sulfate, sulfate, hexafluorophosphate, hexafluoroantimonate, tetrafluoroborate or tetraphenyl borate.

3. The composition of claim 2, wherein the enamine of formulas (II) to (IX) is selected from 3-ethyl-2-methylenebenzothiazolin, 2-methylene-1,3,3-trimethylindolin, 1,2,3,3-tetramethyl-3H-indolinium chloride, 1,2,3,3-tetramethyl-3H-indolinium bromide, 1,2,3,3-tetramethyl-3H-indolinium iodide, 1,2,3,3-tetramethyl-3H-indolinium sulfate, 1,2,3,3-tetramethyl-3H-indolinium hydrogen sulfate, 1,2,3,3-tetramethyl-3H-indolinium methyl sulfate, 1,2,3,3-tetramethyl-3H-indolinium hexafluorophosphates, 1,2,3,3-tetramethyl-3H-indolinium hexafluoroantimonate, 1,2,3,3-tetramethyl-3H-indolinium tetrafluoroborate, 5-chloro-2-methylene-1,3,3-trimethylindolin or its salts, 1-(2-hydroxyethyl)-3,3-dimethyl-2-methylene-indolin or its salts, 1,1,2,3-tetramethyl-1H-benz(e)indolinium chloride, 1,1,2,3-tetramethyl-1H-benz(e)indolinium bromide, 1,1,2,3-tetramethyl-1H-benz(e)indolinium iodide, 1,1,2,3-tetramethyl-1H-benz(e)indolinium sulfate, 1,1,2,3-tetramethyl-1H-benz(e)indolinium hexafluorophosphate, 1,1,2,3-tetramethyl-1H-benz(e)indolinium methyl sulfate, 1,1,2,3-tetramethyl-1H-benz(e)indolinium hexafluoroantimonate and 1,1,2,3-tetramethyl-1H-benz(e)indolinium tetrafluoroborate,

4. The composition of claims 1 to 3, wherein the carbonyl compound is selected from vanillin (4-hydroxy-3-methoxybenzaldehyde), isovanillin (3-hydroxy-4-methoxybenzaldehyde), 3,4-dihydroxybenzaldehyde, 4-hydroxybenzaldehyde, 3,5-dimethoxy-4-hydroxybenzaldehyde, 4-dimethylaminobenzaldehyde, 4-methyl-5-imidazolcarboxaldehyde, 4-dimethylaminocinnamaldehyde, 4-hydroxy-2-methoxybenzaldehyde, 3,5-dimethyl-4-hydroxybenzaldehyde, 4-dimethylamino-2-methoxybenzaldehyde, 2-hydroxybenzaldehyde, 4-hydroxy-1-naphthaldehyde, 4-methoxy-1-naphthaldehyde, 4-dimethylamino-1-naphthaldehyde, 4'-

hydroxybiphenyl-1-carbaldehyde, 2-hydroxy-3-methoxybenzaldehyde, 2,4-dihydroxybenzaldehyde, 3,4-dihydroxybenzaldehyde, 2,5-dihydroxybenzaldehyde, 2,3,4-trihydroxybenzaldehyde, 3,4,5-trihydroxybenzaldehyde, 2,4,6-trihydroxybenzaldehyde, 2,4-dimethoxybenzaldehyde, 2,3-dimethoxybenzaldehyde, 2,5-dimethoxybenzaldehyde, 3,5-dimethoxybenzaldehyde, 3,4-dimethoxybenzaldehyde, indole-3-carbaldehyde, benzene-1,4-dicarbaldehyde, 4-ethoxybenzaldehyde, 2-methyl-1,4-naphthoquinone, 4-carboxybenzaldehyde, 4-hydroxy-3-methoxycinnamaldehyde, 3,5-dimethoxy-4-hydroxy-cinnamaldehyde, 3-methoxy-4-(1-pyrrolidiny)-benzaldehyde, 4-diethylamino-3-methoxybenzaldehyde, 1,2-phthaldehyde, pyrrole-2-aldehyde, thiophene-2-aldehyde, thiophene-3-aldehyde, chromone-3-carboxaldehyde, 6-methyl-4-oxo-1(4H)-benzopyran-3-carbaldehyde, N-methylpyrrole-2-aldehyde, 5-methylfurfural, 6-hydroxychromene-3-carboxyaldehyde, 6-methylindole-3-carboxaldehyde, 4-dibutylaminobenzaldehyde, N-ethylcarbazol-3-aldehyde, 4-diethylamino-2-hydroxybenzaldehyde, 3,4-dimethoxy-5-hydroxybenzaldehyde, 5-(4-(diethylamino)phenyl)-2,4-pentadienal, 2,3-thiophenedicarboxaldehyde, 2,5-thiophenedicarboxaldehyde, 2-methoxy-1-naphthaldehyde, 3-ethoxy-4-hydroxybenzaldehyde, 2-nitrobenzaldehyde, 3-nitrobenzaldehyde and 4-nitrobenzaldehyde.

5. The composition of claims 1 to 4, wherein the enamine and the carbonyl compound are contained in the ready-for-use dyeing agent in each case in an amount of 0.01 to 10 percent by weight.

6. The composition of claims 1 to 5, wherein the composition has a pH of 3 to 11.

7. A multi-component kit for dyeing and, later on, decolorizing fibers, wherein one dyeing agent A of one of the claims 1 to 6 and one decolorizing component B are contained, component B containing at least one sulfite.

8. The multi-component kit of claim 7, wherein the sulfite is selected from the ammonium sulfites, alkali sulfites and alkaline earth sulfites.

9. The multi-component kit of claims 7 or 8, wherein the sulfite in component B is contained in a total amount of 0.1 to 10 percent by weight.

10. A method for temporarily staining hair, for which the hair is stained with a composition of one of the claims 1 to 6 and, at any time later on, is decolorized again by treatment of the hair with a sulfite-containing preparation for a period of 5 to 60 minutes at a temperature of 20° to 50°C.